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CERTIFICATE OF MAILING BY "EXPRESS MAIL"

I hereby certify that this correspondence is being deposited with the US Postal Services "Express Mail Post Office to Addressee" service under 37 CFR 1.10, Express Mail Label No. EL 070 474 042 US, and addressed to Box DAC, Assistant Commissioner for Patents, Washington, D.C. 20231 on the date shown below:

Date: December 23, 1998By: Kay L. Gaviglio

PATENT

Docket No. GC329-US3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)

Johannes C. van der Laan, et al.)

Serial No.: 07/565,673)

Filed: August 10, 1990)

For: Efficient Production of Mutant Proteases)

Group Art Unit: 1814

Examiner: Hendricks, K.

TERMINAL DISCLAIMER TO ACCOMPANY PETITION
(Period of disclaimer to be completed by Petitions Examiner)

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Box DAC
Assistant Commissioner for Patents
Washington, D.C. 20231

OFFICE OF PETITIONS
DEPUTY A/C PATENTS

Sir:

The owner, Genencor International, Inc., of 100% percent interest in the above-identified application hereby disclaims a terminal part of the term of the patent equivalent to the period of abandonment of the above-identified application. This terminal disclaimer applies to any patent granted on the above-identified application or on any application that contains a specific reference under 35 U.S.C. 120, 121, or 365(c) to this application. This disclaimer is binding upon the grantee, its successors or assigns.

Check either box 1 or 2 below, if appropriate.

1. ☒ For submissions on behalf of an organization (e.g. corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that

these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2. ☐ The undersigned is an attorney of record.



Signature

December 23, 1998
Date

Michael Arbige
Vice-President Research
Typed or printed name

- ☒ Terminal disclaimer fee under 37 CFR 1.20(d) included. (Deposit Account No. 07-1048)

THE STATEMENT BELOW IS FOR OFFICE USE ONLY

In accordance with the decision granting the petition filed on _____, this terminal disclaimer is accepted. The period of abandonment specified above has been accepted as equivalent to _____ months.

Petitions Examiner



Certificate Under 37 CFR 3.73(b)

Applicant: Johannes C. van der Lann, Christiaan A. G. van Eekelen,

Application No.: 07/565,673

Filed: August 10, 1990

For: Efficient Production of Mutant Proteases

Genencor International, Inc.

a Delaware Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel ____ Frame ____, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: Johannes C. van der Lann, Christiaan A. G. van Eekelen To: Gist-brocades. The document was recorded in the Patent and Trademark Office at Reel 5492, Frame 0415, or for which a copy thereof is attached.
2. From: Gist-brocades To: Genencor International, Inc. The document was recorded in the Patent and Trademark Office at Reel 8475, Frame 0944, or for which a copy thereof is attached.
3. From: Gist-brocades To: Genencor International, Inc. The document was recorded in the Patent and Trademark Office at Reel 8798, Frame 0909, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

☐ The Assignee has attached a copy of a Certificate of Name Change to demonstrate that _____ was formerly called _____

And that the patent application has not changed ownership after the attached assignment.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

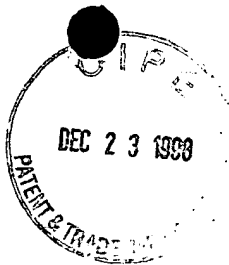
Date: December 23, 1998

Name: Michael Arbige

Title: Vice-President Research

Signature: _____

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34363/GBRO-023 US

COOLEY GODWARD CASTRO
HUDDLESON & TATUM
5 PALO ALTO SQUARE
3000 EL CAMINO REAL
PALO ALTO, CA 94306

ASSIGNMENT

Whereas We, Johannes Cornelis van der LAAN and Christiaan Albertus Gerardus van EEKELEN, of J. Jongkindstratt 81/1, 1062 CP AMSTERDAM, The Netherlands and Bachplaats 14, 2661 HD BERGSCHENHOEK, The Netherlands, respectively, have invented certain new and useful improvements in:

EFFICIENT PRODUCTION OF MUTANT PROTEASES

for which invention we have executed an application for Letters Patent of the United States on or about this date

8/30/90 8/3/90 and which application may be identified in the United States Patent and Trademark Office as:

Serial No. 07/565,673 Filed: 8/10/90; and,

Whereas, GIST-BROCADES NV, a corporation of The Netherlands, having a principal place of business at P.O. Box 1, Wateringseweg 1, 2600 MA DELFT, The Netherlands, is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the letters patent to be obtained therefor:

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to us in hand paid, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said:

GIST-BROCADES NV

and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the letters patent, both foreign and domestic, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

We hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply

REEL 5492 FRAME 17

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with the rules of the United States Patent and Trademark Office for recordation of this document.

Upon said consideration, we convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of the said United States application (or other application if any there be) in priority to other applications; and

We do hereby covenant and agree with the said assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chose in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

REEL 5492 FRAME 418

Date: 30-8-1990

By: 

Johannes Cornelis van der LAAN

STATE OF)

COUNTY OF)

SS:

On this _____ day of _____, 19__, before me, a notary public in and for said county, appeared:

who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that the signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission expires _____

Date: 3-8-1940

By:

Christiaan Albertus Gerardus van
EEKELEN

STATE OF)

COUNTY OF)

SS:

On this _____ day of _____, 19____, before me, a
notary public in and for said county, appeared:

who is personally known to me to be the same person whose name is
subscribed to the foregoing instrument, and acknowledged that the
signed, sealed and delivered the said instrument as his free and
voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission expires _____

20230363

RECORDED
PATENT & TRADE MARK OFFICE

OCT 15 90

REK 5492 FRANK 19



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JUNE 11, 1997

RAC-VENTER LAW GROUP, P.C.
BARBARA RAE-VENTER
P.O. BOX 60039
PALO ALTO, CA 94306

PTAS
REC-11

JUN 18 1997



100399036A

BARBARA RAE-VENTER

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/15/1997

REEL/FRAME: 8475/0944
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

✓ GIST-BROCADES, NV

DOC DATE: 01/02/1997

ASSIGNEE:

✓ GENECOR INTERNATIONAL, INC.
925 PAGE MILL ROAD
PALO ALTO, CALIFORNIA 94304-1013

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JAN 5 1999
OFFICE OF PETITIONS
DEPUTY A/C PATENTS

✓ SERIAL NUMBER: 07565673
PATENT NUMBER:

FILING DATE: 08/10/1990
ISSUE DATE:

PEARLENE FOSTER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DOCKETED
6-18-97 IV

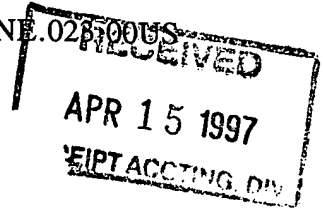
04-22-1997

**PATENT
BOX ASSIGNMENT**



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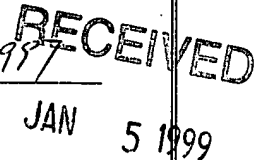
/ Docket No. GEN. 028500US



RECORDATION FORM COVER SHEET - PATENTS ONLY

MRD 4.15.97

<p>1. Name of conveying parties:</p> <p>GIST-BROCADES, NV</p>	<p>2. Name and address of receiving party(ies):</p> <p>GENENCOR INTERNATIONAL, INC. 925 Page Mill Road Palo Alto, CA 94304-1013</p> <p>Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Dates: January 2, 1997</p>	
<p>4. Application number(s) or patent numbers: International Appl. No.</p> <p>If this document is being filed with a new application, the execution date of the application is:</p> <p>A. Patent Application No.: 07/565,673 B. Patent No.(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name/address of party to whom all correspondence concerning document should be mailed:</p> <p>Barbara Rae-Venter, Ph.D. Rae-Venter Law Group, P.C. P.O. Box 60039 Palo Alto, CA 94306</p>	<p>6. Total number of applications/patents involved:</p> <p>One</p> <p>7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge deposit account 18-0020.</p> <p>A duplicate copy of this cover sheet is attached.</p> <p>8. <input checked="" type="checkbox"/> Please apply any additional charges, or any credits, to our Deposit Account No. 18-0020. A duplicate copy of this cover sheet is attached.</p>
<p>9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</p> <p><u>Viola T. Kung, Ph.D.</u> Reg No. P41,131 Name of Person Signing</p> <p><u><i>Viola T. Kung</i></u> Signature</p> <p><u>April 11, 1997</u> Date</p> <p><input checked="" type="checkbox"/> Total number of pages comprising cover sheet, attachments and document: 6</p>	



(420 UT 04/22/97 07565673
1 581 40.00 CK)

PATENT

ATTORNEY DOCKET NO.: GBRO.023.00US

AME-2501

ASSIGNMENT OF PATENT RIGHTS

GIST-BROCADES, NV, a corporation organized and existing under the laws of The Netherlands, having a place of business at 1, Wateringseweg, P.O. Box 1, 2600 MA Delft, The Netherlands (hereinafter called "Assignor"), hereby assigns certain patent rights to GENENCOR INTERNATIONAL, INC., a corporation organized and existing under the laws of Delaware, having a place of business at 925 Page Mill Road, Palo Alto, California 94304-1013, United States of America (hereinafter called the "Assignee"):

WHEREAS Assignor is the owner of the following Application:

APPLICATION

Patent Application Serial No.: 07/565,673

Filed: August 10, 1990

Assignment recorded: October 15, 1990

Reel 5492 Frame 417

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OFFICE OF PETITIONS
DEPUTY A/C PATENTS

Title: **EFFICIENT PRODUCTION OF MUTANT PROTEASES**

AND WHEREAS Assignor has agreed with Assignee for the transfer to it of the whole right, title and interest in and to said Application and inventions therein,

NOW THIS ASSIGNMENT WITNESSETH that in pursuance of said agreement and in consideration of the sum of One U.S. Dollar (\$1.00) paid by Assignee to Assignor (the receipt of which Assignor hereby acknowledges), Assignor, as beneficial owner, hereby assigns and transfers to Assignee said inventions, said Application and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said applications, or reissues or extensions of said Letters Patent, and all rights under International Convention for the Protection of Industrial Property, and the full exclusive benefits thereof, and all rights, privileges and advantages appertaining thereto, including any and all rights to damages, profits or recoveries of any nature for past infringement of said Letters Patent, and the payment of any and all maintenance fees, taxes, and the like, TO HOLD the same unto and to the use of Assignee, its successors and assigns absolutely during the residue of the respective terms for which the said Letters Patent were granted and during any such terms, and for any and all rights extending from said applications and reissues.

ASSIGNOR hereby covenants that Assignor has full right to convey the entire interest herein being assigned and represents that Assignor has not executed and will not execute any agreement inconsistent with this Assignment or to the detriment of the patents, applications, and inventions being assigned hereby.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successor, legal representatives and assigns, that, at the time of execution and delivery of these presents, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or that any division, continuation or continuation-in-part of any Letters Patent, to be obtained therein, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to Assignor, its successors, legal representatives and assigns, but at the cost and expense of the Assignee, its successors, legal representatives and assigns.

The undersigned has reviewed all the documents in the chain of title of the Patent identified above and to the best of the undersigned's knowledge and belief prior to this assignment title is in the Assignor identified above.

I declare that all statements made here of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Executed at Delft, The Netherlands this 2nd
day of January, 1997.

Assignor: GIST-BROCADES NV
By: [Signature]
Printed Name: _____
Printed Title: _____

Simon Johannes QUIST and Huibert Cornelis JONGEJAN
General Proxyholder General proxyholder

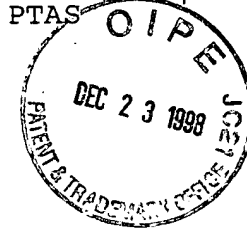


**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 03, 1998

RAE-VENTER LAW GROUP, P.C.
BARBARA RAE-VENTER, PH.D.
P.O. BOX 60039
PALO ALTO, CA 94306



100576243A

JAN 14

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/17/1997

REEL/FRAME: 8798/0909
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GIST-BROCADES, NV

DOC DATE: 10/20/1997

ASSIGNEE:

GENENCOR INTERNATIONAL, INC.
925 PAGE MILL ROAD
PALO ALTO, CALIFORNIA 94304-1013

SERIAL NUMBER: 07565673

PATENT NUMBER:

FILING DATE: 08/10/1990
ISSUE DATE:

MAYA BENNETT, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

PATENT
BOX ASSIGNMENT

11-21-1997

Key Docket No. GENE 023 0015



RECORL

100576243

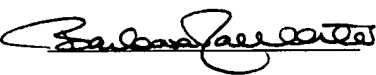
PATENTS ONLY

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NOV 17 1997

RECEIPT ACCTING DIV

MRD 11-17-97

1. Name of conveying parties: GIST-BROCADES, NV		2. Name and address of receiving party(ies): GENENCOR INTERNATIONAL, INC. 925 Page Mill Road Palo Alto, CA 94304-1013 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment (Supplemental) <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Dates: October 20, 1997			
4. Application number(s) or patent numbers: International Appl. No. If this document is being filed with a new application, the execution date of the application is: A. Patent Application No.: 07/565,673 B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name/address of party to whom all correspondence concerning document should be mailed: Barbara Rae-Venter, Ph.D. Rae-Venter Law Group, P.C. P.O. Box 60039 Palo Alto, CA 94306		6. Total number of applications/patents involved: One 7. Total fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge deposit account 18-0020. A duplicate copy of this cover sheet is attached. 8. <input checked="" type="checkbox"/> Please apply any additional charges, or any credits, to our Deposit Account No. 18-0020. A triplicate copy of this cover sheet is attached.	
9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Barbara Rae-Venter, Ph.D.  November 12, 1997 Reg. No. 32,750 Name of Person Signing Signature Date <input checked="" type="checkbox"/> Total number of pages comprising cover sheet, attachments and document: 3			

11/20/1997 VBROWN 00000109 DAW:180020 07565673
01 FC:581 40.00 CH

SUPPLEMENTAL ASSIGNMENT OF PATENT RIGHTS

GIST-BROCADES, NV, a corporation organized and existing under the law of The Netherlands, having a place of business at 1, Wateringseweg, P.O. Box 1,2600 MA Delft, The Netherlands (hereinafter called "Assignor"), hereby assigns certain patent rights to GENENCOR INTERNATIONAL, INC., a corporation organized and existing under the laws of Delaware, having a place of business at 925 Page Mill Road, Palo Alto California 94304-1012, United States of America (hereinafter called the "Assignee"):

WHEREAS Assignor is the owner of the following Application:

APPLICATION

Patent Application Serial No.: 07/565,673

Filed: August 10, 1990

Assignment Recorded: October 15, 1990


Reel 5492 Frame 415

Title: **EFFICIENT PRODUCTION OF MUTANT PROTEASES**

AND WHEREAS Assignor has agreed with Assignee for the transfer to it of the whole right, title and interest in and to said Application and inventions therein,

NOW THIS ASSIGNMENT WITNESSETH that in pursuance of said agreement, and in consideration of the sum of One U.S. Dollar (\$1.00) paid by Assignee to Assignor (the receipt of which the Assignor hereby acknowledges), Assignor, as beneficial owner, hereby transfers and assigns to Assignee said inventions, said Application and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in -part of said applications, or reissues or extensions of said Letters Patent, and all rights under International Convention for the Protection of Industrial Property, and all the full exclusive benefits thereof, and all rights, privileges and advantages appertaining thereto, including any and all rights to damages, profits or recoveries of any nature for past infringement of said Letters Patent, and the payment of any and all maintenance fees, taxes and the like, TO HOLD the same unto and to the use of the Assignee, its successors and assigns absolutely during the residue of the respective terms for which the said Letters Patent were granted and during any such terms, for any and all rights extending from said applications and reissues.

ASSIGNOR hereby covenants that Assignor has full right to convey the entire interest herein being assigned and represents that Assignor has not executed and will not execute any agreement inconsistent with this Assignment or to the detriment of the patents, applications and inventions being assigned hereby.



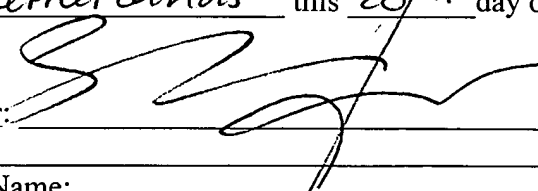
AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successor, legal representatives and assigns, that, at the time of execution and delivery of these presents, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successor, legal representatives and assigns, that Assignor will, whenever counsel of Assignee, or the counsel of its successors, legal representatives or assigns, shall advise that any proceeding in connection with said invention, or that any division, continuation or continuation-in-part of any Letters Patent, to be obtained therein, is lawful and desirable, sign all papers and documents; take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to Assignor, its successors, legal representatives and assigns.

The undersigned has reviewed all the documents in the chain of title of the Ptent identified above to the best of the undersigned's knowledge and belief prior to this assignment title is in the Assignor identified above.

I declare that all statements made here of my own knowledge are true and that all statements made on information and belief are believed to true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the validity of the application or any patent issued thereon.

Executed at Delft, The Netherlands this 20th day of October, 1997.

Assignor: 

By: _____

Printed Name: _____

Printed Title: _____

Simon Johannes QUIST and Huibert Cornelis JONGEJAN
General Proxyholder General Proxyholder

34363/GBRO-023 US

COOLEY GODWARD CASTRO
HUDDLESON & TATUM
5 PALO ALTO SQUARE
3000 EL CAMINO REAL
PALO ALTO, CA 94306

ASSIGNMENT

Whereas We, Johannes Cornelis van der LAAN and Christiaan Albertus Gerardus van EEKELEN, of J. Jongkindstratt 81/1, 1062 CP AMSTERDAM, The Netherlands and Bachplaats 14, 2661 HD BERGSCHENHOEK, The Netherlands, respectively, have invented certain new and useful improvements in:

EFFICIENT PRODUCTION OF MUTANT PROTEASES

for which invention we have executed an application for Letters Patent of the United States on or about this date

8/30/90 8/3/90 and which application may be identified in the United States Patent and Trademark Office as:

Serial No. 07/565,673 Filed: 8/10/90; and,

Whereas, GIST-BROCADES NV, a corporation of The Netherlands, having a principal place of business at P.O. Box 1, Wateringseweg 1, 2600 MA DELFT, The Netherlands, is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the letters patent to be obtained therefor:

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to us in hand paid, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said:

GIST-BROCADES NV

and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the letters patent, both foreign and domestic, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

We hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply

REEL 5492 FRAME 17

with the rules of the United States Patent and Trademark Office for recordation of this document.

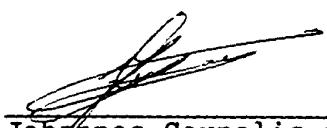
Upon said consideration, we convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of the said united States application (or other application if any there be) in priority to other applications; and

We do hereby covenant and agree with the said assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chose in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

REEL 5492 FRAME 418

Date: 30-8-1990

By:


Johannes Cornelis van der LAAN

STATE OF)

) SS:

COUNTY OF)

On this _____ day of _____, 19____, before me, a notary public in and for said county, appeared:

who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that the signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission expires _____

Date: 3-8-1990

By:

Christiaan Albertus Gerardus van
EEKELEN

STATE OF)

COUNTY OF)

SS:

On this _____ day of _____, 19__, before me, a
notary public in and for said county, appeared:

who is personally known to me to be the same person whose name is
subscribed to the foregoing instrument, and acknowledged that the
signed, sealed and delivered the said instrument as his free and
voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission expires _____

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PATENT & TRADEMARK OFFICE

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REEL 5492 FRAME 419